

Application No.: 10/710,406
 Examiner: Poker, Jennifer A
 Art Unit: 2832

Applicant: Taipei Multipower Electronics Co., Ltd.

IN THE CLAIMS

Please amend the claims as follows.

1. (currently amended) A transformer module having an external transmission element capable of reducing interferences between adjacent transformers, comprising:

at least two bobbins, each bobbin enclosing a hollow central region and comprising a receiving hole, wherein two sides of each said bobbin comprises an inlaying portion and a buckling portion, and wherein a plurality of terminals extend from said buckling portion, wherein said buckling portion at two sides of each bobbin comprise a buckling element and a buckling groove respectively, and wherein said buckling element of one of said bobbins is buckled to said buckling groove of another bobbin of said bobbins;

a core element, positioned inside said receiving hole of each said bobbin, wherein two ends of said core element protrude out of said inlaying portions of each said bobbin; and

a single transmission element, comprising a holding portion at two sides thereof, wherein said transmission element is secured at said inlaying portion of each said bobbin by inlaying said holding portion of the single transmission element into said inlaying portion of each said bobbin and thereby electrically connecting said single transmission element with said core element to form a single magnetic loop for each bobbin ~~conduct and stabilize a magnetic field.~~

2. (currently amended) The transformer module according to claim 1, wherein said single transmission element is made of a conductive material.

3. (currently amended) The transformer module according to claim 1, wherein said single transmission element comprises a protruded holding portion at two sides

Application No.: 10/710,406
Examiner: Poker, Jennifer A
Art Unit: 2832

Applicant: Taipei Multipower Electronics Co., Ltd.

thereof.

Claims 4-5 (canceled).

6. (currently amended) The transformer module according to claim 1, wherein said single transmission element of each bobbin is positioned independently.

7. (currently amended) The transformer module according to claim 1, wherein said inlaying portion formed at two sides of said bobbins comprises an inlaying groove respectively.

8. (currently amended) The transformer module according to claim 1, wherein a lid covers a top of said bobbins, and wherein said lid comprises a plurality of jointing portions at sides thereof.

9. (original) The transformer module according to claim 8, wherein said jointing portions formed at sides of said lid comprises long bars.

10. (new) A transformer module, comprising:

at least two bobbins, each bobbin enclosing a hollow central region and comprising a receiving hole, wherein two sides of each bobbin comprises an inlaying portion and a buckling portion, and wherein a plurality of terminals extend from said buckling portion, wherein said buckling portion at two sides of each bobbin comprise a buckling element and a buckling groove respectively, and wherein said buckling element of one of said bobbins is buckled to said buckling groove of another bobbin of said bobbins;

a core element, positioned inside said receiving hole of each bobbin;

a transmission element, two end portions thereof electrically connected with two end portions of said core element to form a magnetic loop, wherein said transmission element is secured at said inlaying portion of each bobbin by inlaying a holding portion

Application No.: 10/710,406
Examiner: Poker, Jennifer A
Art Unit: 2832

Applicant: Taipei Multipower Electronics Co., Ltd.

of the single transmission element into said inlaying portion of each bobbin; and

a lid, covering a top of said bobbins, electrically connected to said transmission element.

11. (new) The transformer module according to claim 10, wherein said lid comprises a plurality of jointing portions at sides thereof.

12. (new) The transformer module according to claim 11, wherein said jointing portions formed at sides of said lid comprises long bars.

13. (new) The transformer module according to claim 10, wherein said transmission element is made of a conductive material.

14. (new) The transformer module according to claim 10, wherein said transmission element comprises a protruded holding portion at two sides thereof.

15. (new) The transformer module according to claim 10, wherein said transmission element of each bobbin is positioned independently.

16. (new) The transformer module according to claim 10, wherein said inlaying portion formed at two sides of said bobbins comprises an inlaying groove respectively.